

RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Artificial Intelligence & Machine Learning

OCT 2023 – MAR 2024

NEWS LETTER - ಸುದ್ದಿಪತ್ರ

Artificial Intelligence & Machine Learning

www.sreyas.ac.in

The Department of Artificial Intelligence and Machine Learning (AI & ML) at RRCE was established in the year 2020. The Department offers B.E (AI & ML) Undergraduate program and with an intake of 60 students and the Department is affiliated to Visvesvaraya Technological University, Belagavi, Karnataka and approved by AICTE, New Delhi.

Artificial Intelligence and Machine Learning (AI & ML) appear for the next industrial revolution happening in the world today. Artificial Intelligence has been utilized in various fields.

Artificial Intelligence emphasizes the development of intelligent machines which think and work like humans. Machine Learning (ML) is a subset of Artificial Intelligence. ML is the science of designing and applying algorithms that are able to learn things from past cases.

AI and ML are integral parts of data science, where techniques from both such as regression, projecting analytics and more are applied for coming generation.

Tag Line: Artificial Intelligence and Machine learning (AI & ML) is impacting the business world in a big way and become ultimate in the digital

Editorial Board



Dr. Rajesh K S
Prof. & HOD



Prof. Mamatha K R
Assistant Professor

VISION

To bring out the competent and socially responsible Engineers in the field of AI & ML education, research and innovation.

MISSION

- To Inculcate, the integration process of concepts in AI & ML domain.
- To equip AI & ML graduates with skills to meet Industry and Societal challenges by skill enhanced training.
- To promote Research and ethical culture through interaction for broader application in AIML domain.

PROGRAM SPECIFIC OUTCOMES (PSOs) :

The AIML graduates will have the ability to:

PSO1: Design and develop AI & ML Solution, through modern engineering tools and Programming Language, Technical skills in presenting modern insights.

PSO2: Ability to adapt continues changing AI & ML domain for innovative challenges.

PROGRAM EDUCATIONAL OBJECTS (PEOs)

PE0 1: Develop competent profession in the field of Artificial Intelligence and Machine Learning towards advanced skills in solving contemporary problems

PE0 2: Pursue their professional on technical and progress towards Research and Entrepreneurship.

PE0 3: Progress as skilled in team and adapting leadership qualities and ethical values as per the society

DEPARTMENT EVENTS

Educational Outreach Program

“Self learning and Skill development”

Event Date: 27th OCT 2023

The Educational Outreach Program is intended to encourage learning and this will lead to enhance the basic knowledge among student communities and to inspire the students with better exposure of computer and its applications. This program will be a platform for Government school Students to learn and explore about Computer and its applications like Microsoft word, Excel and Power-point presentation



Technical seminar on Data Analysis

Resource Person : Shreyanth H G Accurate
Info-Solution

Event Date: 23/11/2023

The event started with the formal Inaugural function at 9.30a.m in Arya bhata seminar Hall. On the dais Our Chief Shreyanth H G Accurate Info-Solution- BENGALURU, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech , followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students was given by Shreyanth H G resource person ,. Vote of thanks was given by the student.

Road-map to becoming a Data Analyst.

Data Collection and preparation.

Exploratory Data Analysis.

Tools used in Real-world Analysis.

Real-World Applications.

Outcome of the program is to provide information on Data Analysis and Real world Application; Its help students identify their interests and strengths; expose them to a diverse

range of opportunities to build experience and

clarity about their goals; and empower them to pursue internships, jobs, and leadership experiences they find personally meaningful

Data Analysis Seminar

Title of the Event : Data Analysis in Real World

Resource Person: Shreyanth H G

Accurate Info-Solution

Date of the event: 23rd November 2023

Overview of the Workshop:

The event started with the formal Inaugural function at 9.30a.m in Arya bhata seminar Hall. On the dais Our Chief Shreyanth H G Accurate Info-Solution-BENGALURU, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech , followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students was given by Shreyanth H G resource person ,. Vote of thanks was given by the student.

Content :Road-map to becoming a Data Analyst ,Data Collection and preparation,Exploratory Data Analysis,Tools used in Real-world Analysis and Real-World Applications.

Outcome of the program:

Outcome of the program is to provide information on Data Analysis and Real world Application; Its help students identify their interests and strengths; expose them to a diverse range of opportunities to build experience and clarity about their goals; and empower them to pursue internships, jobs, and leadership experiences they find personally meaningful.



Christmas Crib 2023 Event Report

Date : 22-12-2023

Christmas is the festival which inspires the spirit of sharing and caring. Christmas crib celebration was held on 22nd December 2023, in RRCE. The campus was well decorated with crib, Christmas tree, stars and bells.

Department of MCA, MBA, ISE, EEE, AIML and Civil department students was participated in the Crib Event. Each department was unique with decorations made from cotton, wool, paper cups, balloons etc. It also gave them an opportunity to showcase their talent as almost all the decorations were handmade from scratch without having to spend tons of money thus unleashing the creative potential of the students.

The judges had quite a tough time in selecting the best decorated class but ultimately came up with selecting MCA Department and AIML Department for First Prize, Second Prize: EEE Dept. Third Prize: MBA Dept. On the whole; it was a wonderful experience for the staff and students alike.

Thanks to the jury members Dr. D Soby Madam, ASP ECE & Mrs Jeniga madam, AP CSE Dept



Angular JS workshop

Resource Person: Mr.Umesh M

Trainer & DeliveryHead,
Inspiration Manpower Consultancy

Date of the event: 27/12/2023 to 31/12/2023

Overview of the Workshop:

The event started with the formal Inaugural function at 9.30a.m in Abdul Kalam Conference Hall. On the dais Our Chief Mr.Umesh M Trainer & Delivery Head, Inspiration Manpower Consultancy, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech , followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students was given by Umesh M S resource person . Vote of thanks was given by the student.

Content thought :Introduction To Angular JS,Angular JS features , arrays , arrays of objects,Angular JS Model Controller,Expression , Directives,Features, Angular JS Model-View-Controller, Expression, Directives and Controllers,Working with Forms,Forms Validation. Error Handling and Filters-Using Filters in Controllers and Services with Hands-on session.

Outcome of the program:

Outcome of the program is to provide information on Angular JS Framework and various mini projects on Front-end development; Its help students identify their interests and strengths; expose them to a diverse range of opportunities to build experience and clarity about their goals; and empower them to pursue lab, and leadership experiences they find personally meaningful.



SCR ACTIVITY OF PLANTATION

Date of the event: 5th JAN 2024

Overview of the Event:

The department Hod led the group of students to the playing arena which consists of different plants on the sides. In addition to all those plants the students were given an activity to plant a few saplings. Since most of the students did not know the initial steps of digging out the mud and stuff like that, they asked help from the workers who take care of those plants by asking them to demonstrate how it was done. The students then tried their best and worked together by splitting the work among them and planted the saplings which they had bought. After the plantation everyone watered the plants and looked joyful as ever since they were looking forward for those tiny plants to grow into a huge and healthy tree inside the college campus.

Outcome of the program: After everything was done, the students were educated briefly about why it was necessary to plant trees in our environment and all of them took photos with the planted saplings for educational purposes.



Industrial Visit

Title :Industrial Visits to “Channapatna Craft Park”

Event schedule: 18-01-2023.

Outcome of the program: Understanding the legacy of channapatna toys making, Comparison of modern and traditional manufacturing process, Knowledge about the CNC Machines and tools that were used to make toys, Knowledge about the software called Corel Draw to design the product to carry out the operation, Knowledge about the different kinds of woods and other materials used in the process of making toys.

Date of the event: 21st FEB 2024

Overview of the Event:

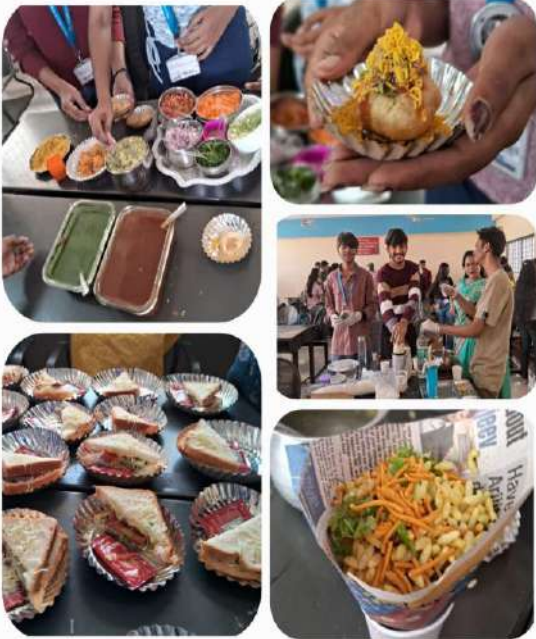
All students were first assembled in their class and started the preparations two hours prior to the fest. While most of the students prepared the food items in the class itself with some minor preparations beforehand, some of them had bought their food items which was already fully prepared and just managed to discuss ideas for their presentations. There was not a single face which showed tiredness, in fact everyone was happily involved and were enjoying this activity.

The students were all set and staffs from various departments visited to inspect and review the activity. It was an amazing interactive session between the staffs and the students. Most of the Teachers were excited as much as the students and were happy to see the number of items and a huge variety of food which consisted of traditional Indian meals, different types of snacks, chilled milkshakes and many more!

Outcome of the program:

At the end, students were praised with words of appreciation and were motivated to do many more such group tasks which would help in developing various social skills.





Applications of different AI tools and Live tasks on applications of AI tools

Outcome of the program:

Outcome of the program is to provide information on Generative AI and Prompt engineering, exposure to various AI tools. It helps students to identify and use AI drives tools the time taken to perform a task. It enables multi-tasking and eases the workload for existing resources. They enable organizations and individuals to harness the power of artificial intelligence to streamline processes, make data-driven decisions, and enhance productivity.

Workshop on Generative AI and Prompt Engineering

**Resource Person: Miss. Shriti Arvind Singh
Co-Founder DevMinds.**

Date of the event: 22/2/2024 to 27/2/2024

Overview of the Workshop:

The event started with the formal Inaugural function at 9.30a.m in Satyendranath Bose Seminar. On the dais Our Chief guest Miss. Shriti Arvind Singh, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HOD AI & ML. The function started with Invocation Song, followed by the welcome speech, followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students by Miss. Shriti Arvind Singh then Vote of thanks was given by the student.

Content: Introduction To Generative AI, Natural Language Processing, Chat GPT and its various applications, AI tools- YouTube transcript, Claude, Effective PPT creation using AI- Slides AI, Introduction to Prompt Engineering, Hands on





ULTRON- 24

Second National Level Technical Symposium

Event Date: 1st March 2023

Overview of the symposium:

The event started with the formal Inaugural function at 9.30 a.m in Abdul Kalam Conference Hall. On the dais Our Chief Guest Sushma Krishnappa, Senior Delivery lead, Accenture,- BENGALURU, Dr. Balakrishna R Principal, RRCE, Dr Usha Saktivel, Research Dean, RRCE. Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech given by Soniya R. ULTRON a Revisit glance by

student Main coordinator Mr. Sathwick and Gagan followed by presidential address given by Principal and Dean. Inspiring speech regarding the future opportunities for engineering students was given by Chief Guest Sushma Krishnappa, Senior Delivery lead, Accenture,- BENGALURU. Vote of thanks was given by the Abhishyanth student coordinator.

The students of AI & ML Department are happy to inform that for the 2nd year, the technical exposure of students have been exhibited through our association activities. The technical symposium was organized and made as a grand success. We are stepping in remarkable academic year and organized a National level technical symposium “ULTRON- 24” to collaborate the technology with the participants of various colleges and from different departments of RRCE. ULTRON- 24 is a team work of our association members under the guidance of Management, Principal and faculty members. To motivate participants, merit certificated and prizes will be awarded.





Career Guidance Program

Date of the event : 12/03/24

Outcome of the program: Outcome of the program is to provide information on Generative AI and Prompt engineering, exposure to various AI tools. It helps students to identify and use AI driven tools the time taken to perform a task, expose them to a diverse range of opportunities to build their goals.

Students gained information:. Gained knowledge in the field of AI and .Gained knowledge and opportunities by up skilling in the field of Generative AI.

